

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
 Data File : VL043324.D
 Acq On : 08 Dec 2025 21:56
 Operator : SY/MD
 Sample : Q3799-06DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 16-IA-1DL

Quant Time: Dec 09 01:25:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Nov 19 01:11:25 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

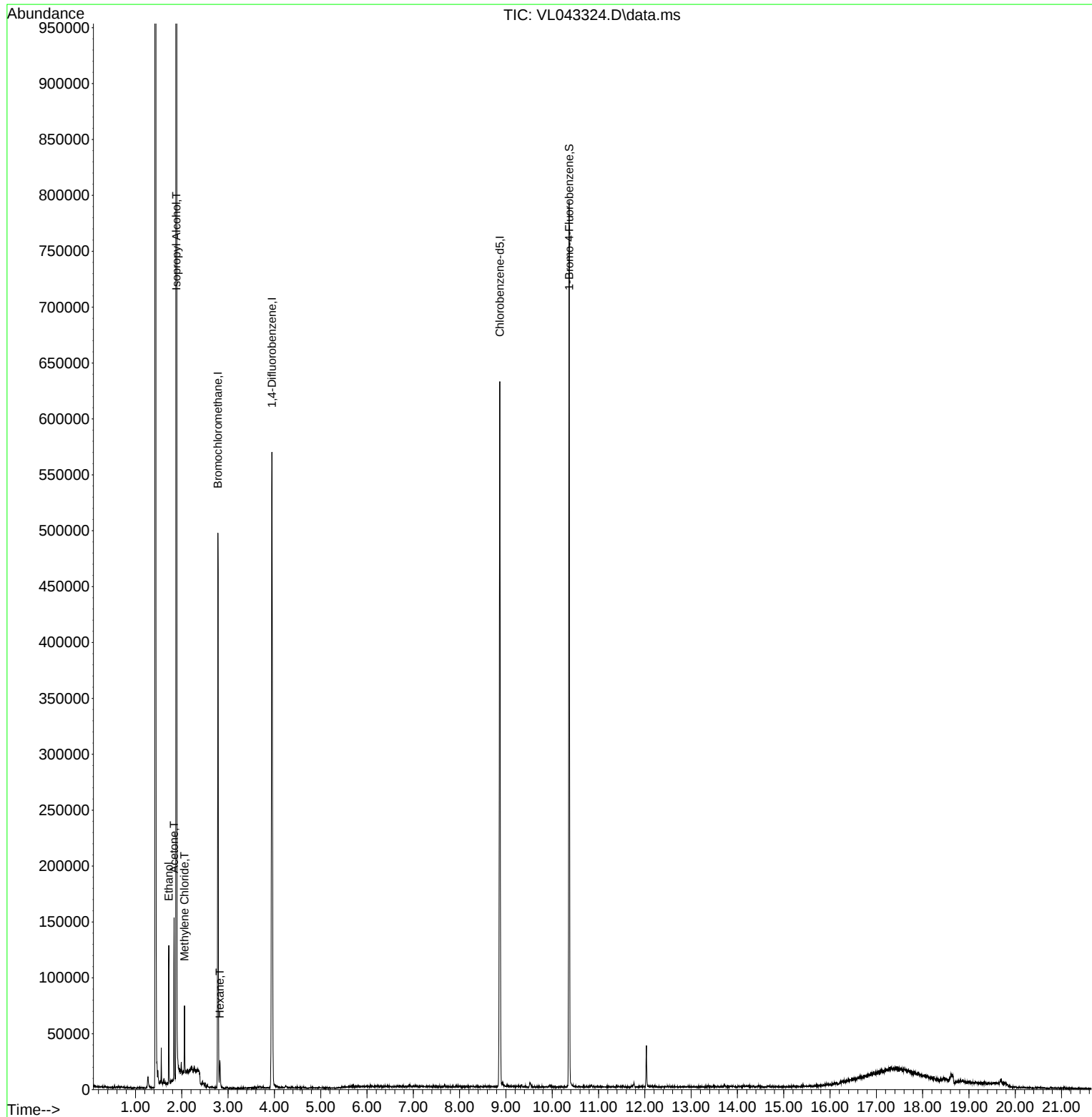
Internal Standards						
1) Bromochloromethane	2.780	49	127959	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	316604	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	248177	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	180171	9.904	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.000%
Target Compounds						
						Qvalue
13) Ethanol	1.719	45	40793	15.392	ppbv	98
15) Acetone	1.832	43	62169	3.497	ppbv	98
19) Isopropyl Alcohol	1.884	45	2523636	251.215	ppbv #	37
20) Methylene Chloride	2.059	84	8511	0.911	ppbv	88
26) Hexane	2.819	57	3985	0.237	ppbv #	68

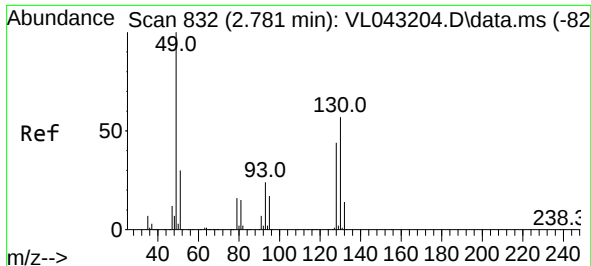
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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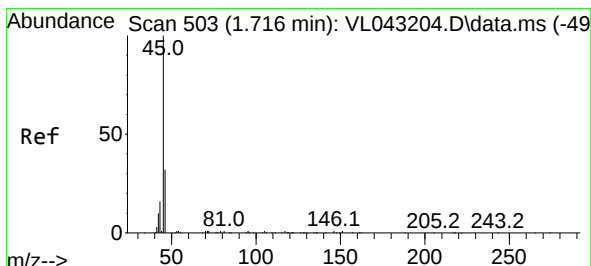
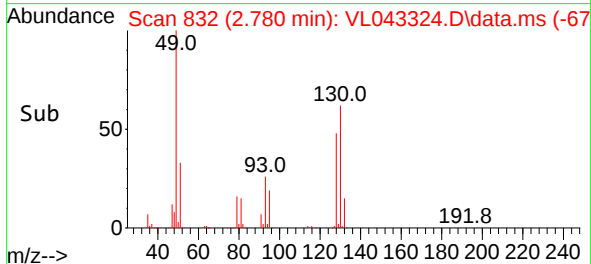
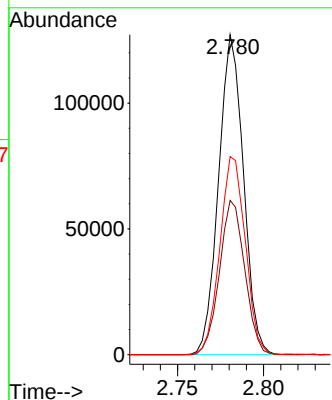
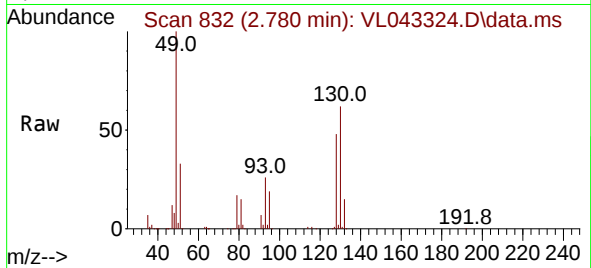




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 81
Delta R.T. -0.001 min
Lab File: VL043324.D
Acq: 08 Dec 2025 21:56

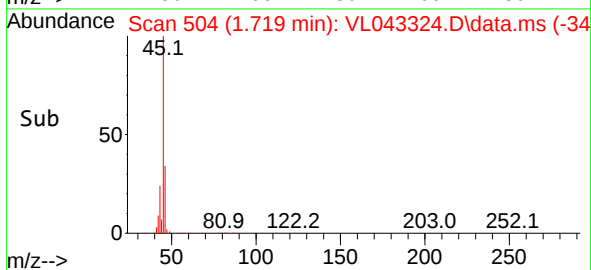
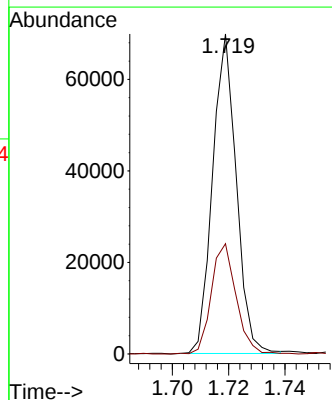
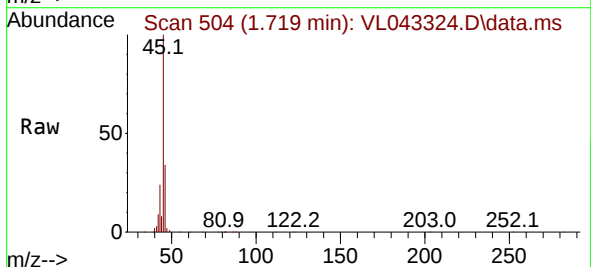
Instrument :
MSVOA_L
ClientSampleId :
16-IA-1DL

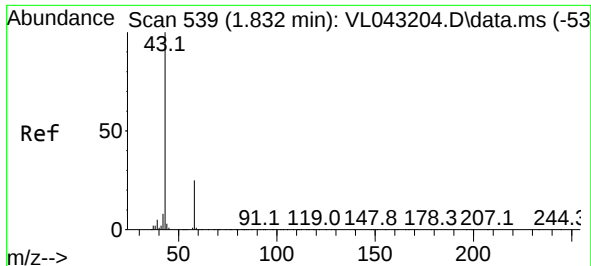
Tgt Ion: 49 Resp: 127959
Ion Ratio Lower Upper
49 100
128 49.0 23.0 69.0
130 63.6 29.9 89.7



#13
Ethanol
Concen: 15.392 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043324.D
Acq: 08 Dec 2025 21:56

Tgt Ion: 45 Resp: 40793
Ion Ratio Lower Upper
45 100
46 36.1 15.0 59.8

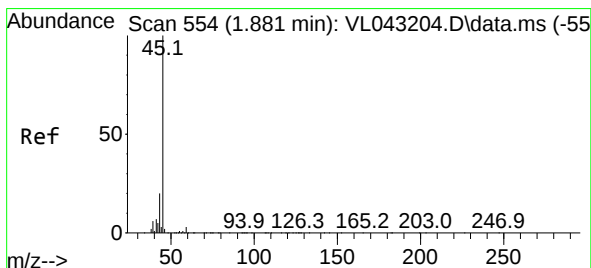
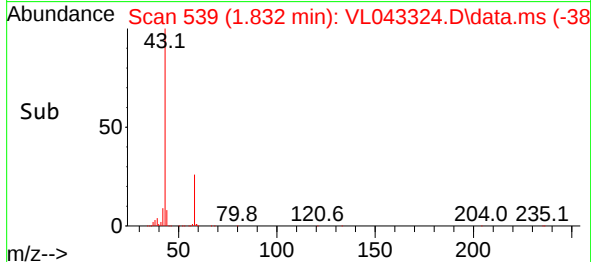
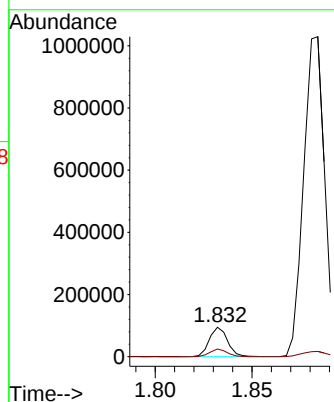
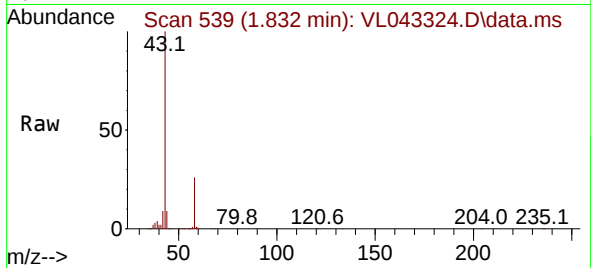




#15
Acetone
Concen: 3.497 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL043324.D
Acq: 08 Dec 2025 21:56

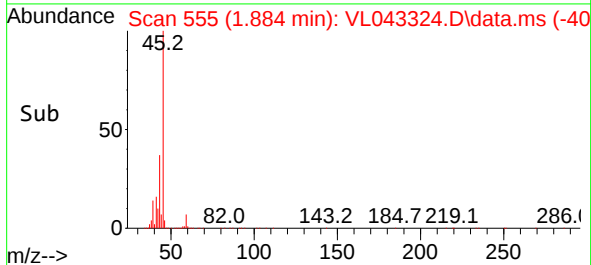
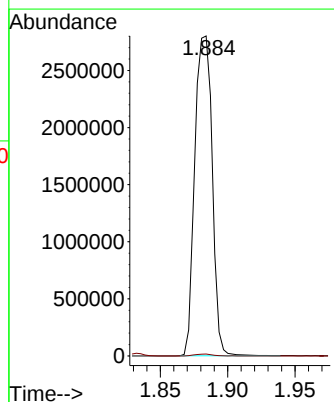
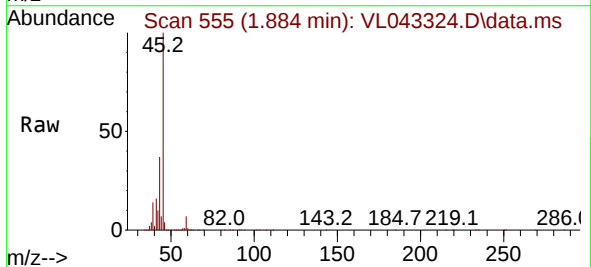
Instrument :
MSVOA_L
ClientSampleId :
16-IA-1DL

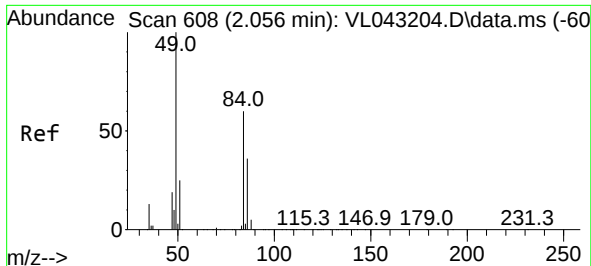
Tgt Ion: 43 Resp: 62169
Ion Ratio Lower Upper
43 100
58 25.0 20.7 31.1



#19
Isopropyl Alcohol
Concen: 251.215 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043324.D
Acq: 08 Dec 2025 21:56

Tgt Ion: 45 Resp: 2523636
Ion Ratio Lower Upper
45 100
58 0.6 31.3 46.9#



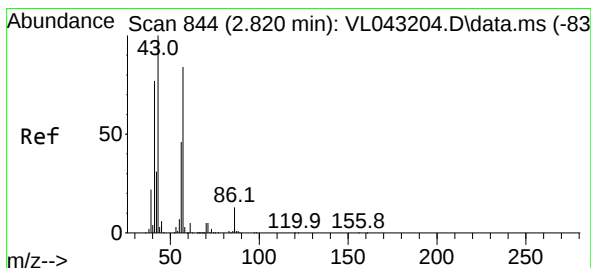
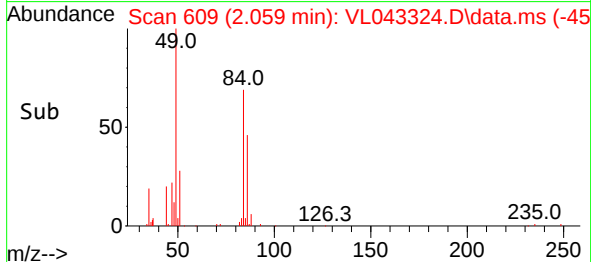
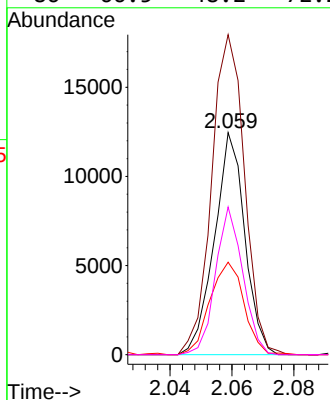
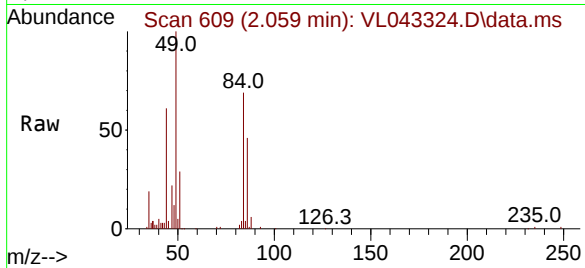


#20
Methylene Chloride
Concen: 0.911 ppbv
RT: 2.059 min Scan# 608
Delta R.T. 0.003 min
Lab File: VL043324.D
Acq: 08 Dec 2025 21:56

Instrument :
MSVOA_L
ClientSampleId :
16-IA-1DL

Tgt Ion: 84 Resp: 8511

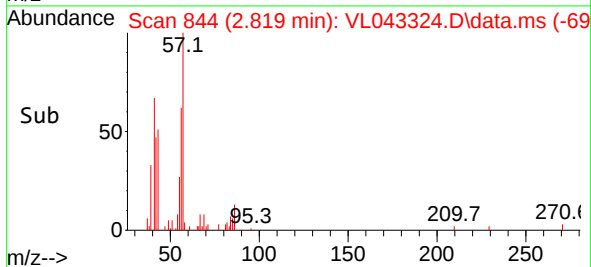
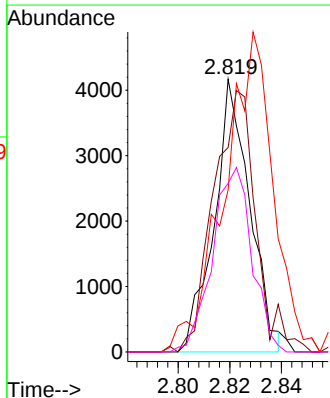
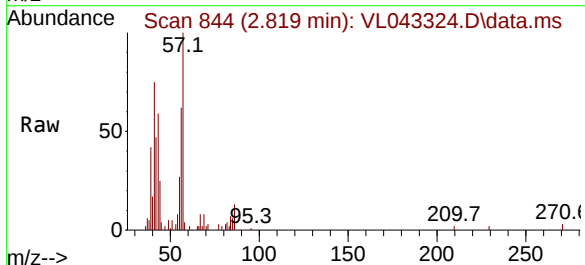
Ion	Ratio	Lower	Upper
84	100		
49	144.1	132.9	199.3
51	41.6	34.8	52.2
86	66.5	48.2	72.2

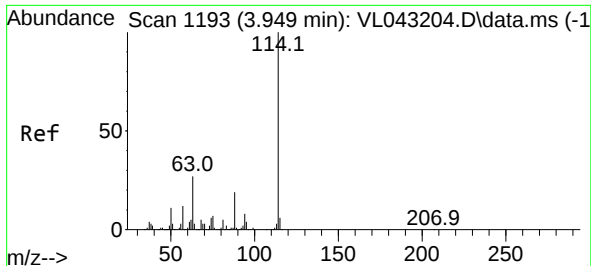


#26
Hexane
Concen: 0.237 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043324.D
Acq: 08 Dec 2025 21:56

Tgt Ion: 57 Resp: 3985

Ion	Ratio	Lower	Upper
57	100		
41	114.6	74.6	111.8#
43	165.2	179.0	268.4#
56	75.2	42.3	63.5#

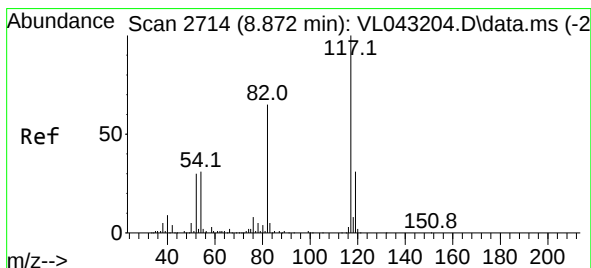
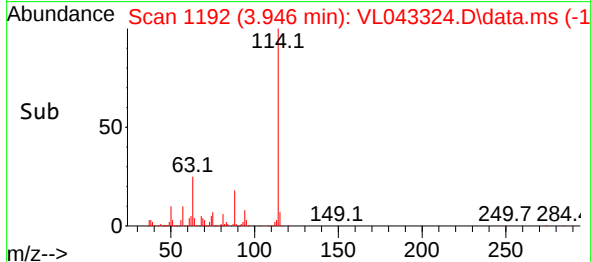
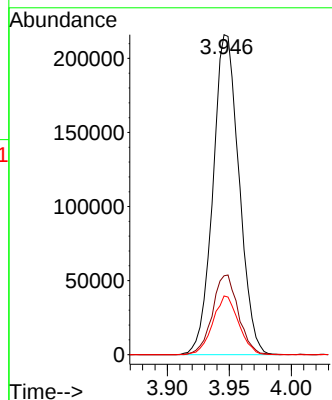
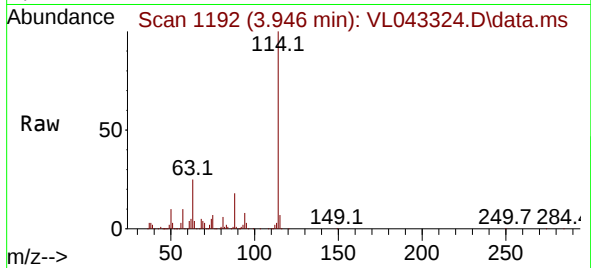




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.946 min Scan# 1192
Delta R.T. -0.004 min
Lab File: VL043324.D
Acq: 08 Dec 2025 21:56

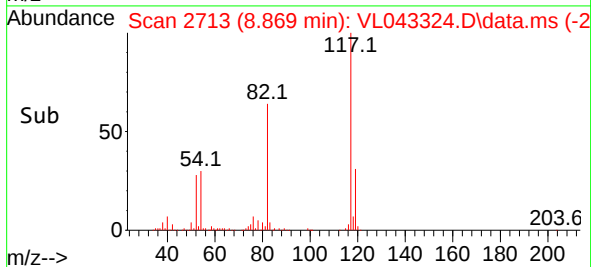
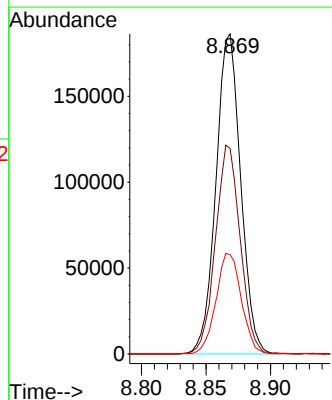
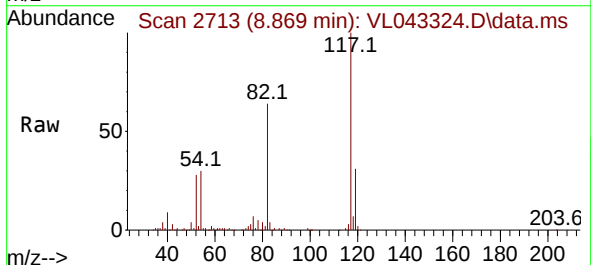
Instrument :
MSVOA_L
ClientSampleId :
16-IA-1DL

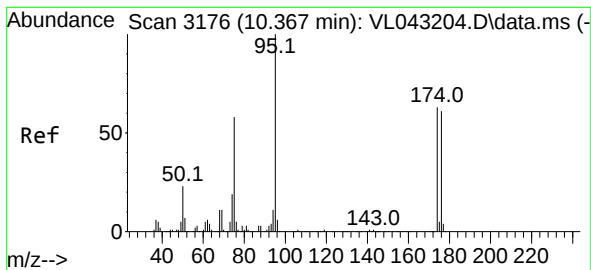
Tgt Ion:114 Resp: 316604
Ion Ratio Lower Upper
114 100
63 24.9 21.0 31.6
88 18.2 14.9 22.3



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2713
Delta R.T. -0.004 min
Lab File: VL043324.D
Acq: 08 Dec 2025 21:56

Tgt Ion:117 Resp: 248177
Ion Ratio Lower Upper
117 100
82 65.4 56.1 84.1
119 32.3 25.0 37.6





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.904 ppbv
 RT: 10.364 min Scan# 31
 Delta R.T. -0.004 min
 Lab File: VL043324.D
 Acq: 08 Dec 2025 21:56

Instrument :
 MSVOA_L
 ClientSampleId :
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Tgt Ion: 95 Resp: 180171
 Ion Ratio Lower Upper
 95 100
 174 70.2 50.2 75.2
 175 5.0 4.1 6.1

